

Snow Labyrinth

by Arya Akhavan (March 2013)

Angles for R.I. = 1.580

163 + 18 girdles = 181 facets

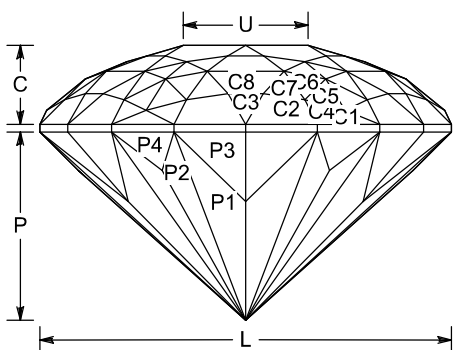
6-fold, mirror-image symmetry

96 index

L/W = 1.001 T/W = 0.350 U/W = 0.303

P/W = 0.457 C/W = 0.191

Vol./W³ = 0.228



PAVILION

| | | | |
|----|--------|-------------------------------------|---------------------|
| P2 | 42.00° | 06-10-22-26-38-42-54-58-70-74-86-90 | Meet at culet. |
| P1 | 42.09° | 04-12-20-28-36-44-52-60-68-76-84-92 | Cut to centerpoint. |
| G1 | 90.00° | 02-14-18-30-34-46-50-62-66-78-82-94 | Set stone width. |
| G2 | 90.00° | 08-24-40-56-72-88 | Meet P1, P2, G1 |
| P3 | 45.09° | 02-14-18-30-34-46-50-62-66-78-82-94 | Level girdle. |
| P4 | 45.09° | 08-24-40-56-72-88 | Level girdle. |

CROWN

| | | | |
|-----|--------|-------------------------------------|--------------------------|
| C1 | 64.23° | 08-24-40-56-72-88 | Set girdle width. |
| C2 | 47.15° | 02-14-18-30-34-46-50-62-66-78-82-94 | Level girdle. |
| C3 | 44.65° | 96-16-32-48-64-80 | Meet G, C2 |
| C4 | 45.44° | 05-11-21-27-37-43-53-59-69-75-85-91 | Meet G1, G2, C1, C2 |
| C5 | 39.40° | 06-10-22-26-38-42-54-58-70-74-86-90 | Meet C1, C4 |
| C6 | 35.27° | 04-12-20-28-36-44-52-60-68-76-84-92 | Meet C2, C4, C5 |
| C7 | 35.81° | 03-13-19-29-35-45-51-61-67-77-83-93 | Meet C2, C4, C5, C6 |
| C8 | 32.06° | 96-16-32-48-64-80 | Meet C2, C3, C8 |
| C9 | 22.48° | 07-09-23-25-39-41-55-57-71-73-87-89 | Meet C5, C6; C6, C7, C8 |
| C10 | 20.69° | 06-10-22-26-38-42-54-58-70-74-86-90 | Meet C6, C7, C8, C9 |
| C11 | 23.38° | 96-16-32-48-64-80 | Meet C6, C7, C8, C9, C10 |
| C12 | 16.00° | 08-24-40-56-72-88 | Meet C9, C10 |
| C13 | 18.32° | 96-16-32-48-64-80 | Meet C10, C11, C12 |
| T | 0.00° | Table | Meet C12, C13 |

This design's crown is as close to a perfect Koch Snowflake (another simple fractal) as possible with a 96 index. The light return is a bit low, but it's a dome (which should help pale materials retain color, and will boost dispersion). Works in materials from beryl to rutile (RI = 1.58 - 2.62) with no changes, but I prefer aquamarine. Suggested width = 10-15 mm

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